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Subject: CSWG Mtg Summary 18 Dec 2020: Tests & SOPs
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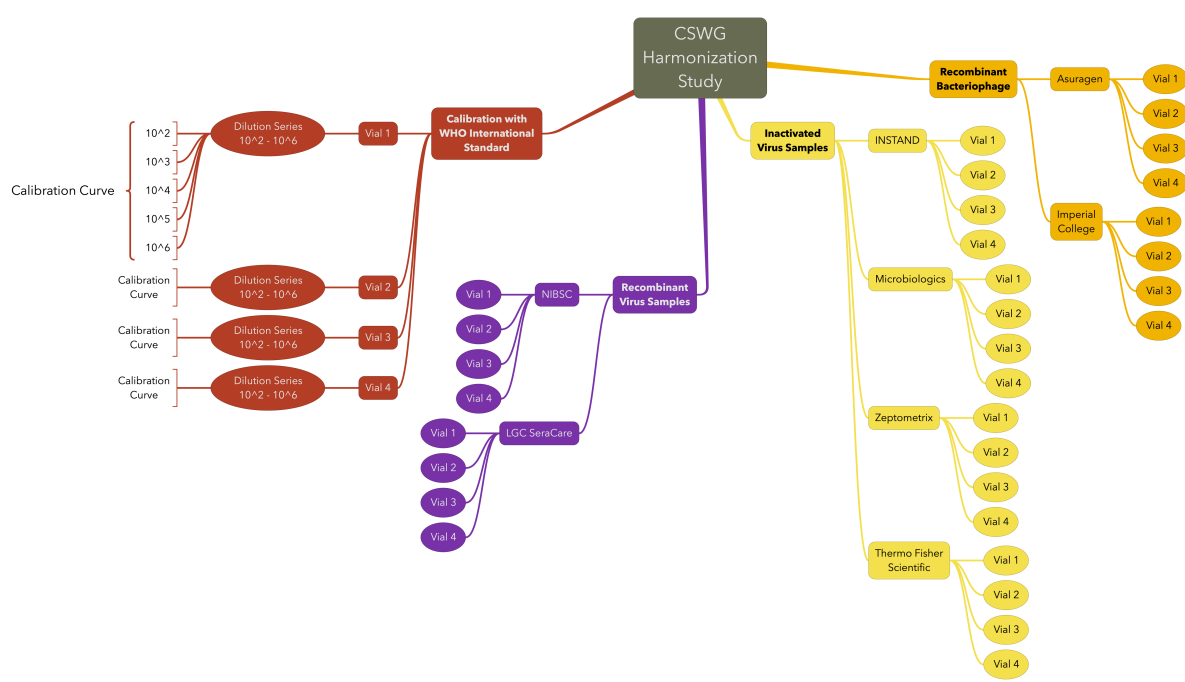
Coronavirus Standards Working Group Meeting Summary: Delving into the Harmonization Study Details II

Dear Colleagues –

Thanks for meeting this morning, Friday 18 December – we did more delving into critical details for our Harmonization Study. At a high level we discussed details of applying the variety of tests in clinical labs to our sample panel, which are not clinical samples, and hence don't have (consistent) human backgrounds; and we introduced the details and principles for a recommended "Standard Operating Procedure" to be offered as guidance for the labs.

The [slides from this morning's meeting](#) are here, and the [link to the meeting recording](#) is here.

Here is a diagram of the experiment as it currently stands (click to download).



We had a brief discussion of nomenclature and agreed to use the definitions in use in ISO documents and the [MIQE Guidelines](#) (Cq for quantitation cycle, RT-qPCR for Reverse Transcriptase quantitative PCR).

Sara Suliman presented a plan to specify preparation steps for the samples in the panel, and shared a [Google sheet](#) where the protocol is being put together. We were able to fill in some missing data during the meeting -- many thanks Mark and Heinz/Martin/Peter! -- and establish that the materials to be compared against the IS will

fall comfortably in the range of the calibration curve.

- we re-iterated that the recommended SOP will rely on the 4 aliquots of every sample in the panel as the replication design
 - the SOP will NOT call for replicate dilutions from a given vial nor for PCR replication.
- 4 independent calibration curves will be created in each lab from the 4 vials of the WHO International Standard each lab will receive
 - replicate dilutions/calibration curve preparation from each vial will not be specified in the recommended SOP
- we will avoid being prescriptive, encouraging labs to use their best practices and...
 - regardless of the protocol followed, the labs will report their process steps in detail in a questionnaire to be provided
- labs will report quantitative results of each measurement, without summarization/statistical analysis, or data reduction, for instance a lab doing RT-qPCR will report Cq for each sample

Some outstanding actions:

- we need to get certification of inactivation for all the inactivated virus samples before shipping
- we need knowledge of what cell lines were used to culture inactivated virus
- Imperial College will consider the protocol range and test volume range when selecting samples to provide.

Here's a [link to the Google sheet with the most current information about the samples](#).

And here's a [link to the draft Labs Survey](#), where we're trying to get information on the tests sufficient to be sure we have a good diversity in the study.

Best regards to all -- the highlight of my 2020 has been getting to know you all and work closely together. I so look forward to our next steps in advancing our mission.

Please stay safe as Winter begins and I wish you all health and wellbeing and good spirits!

Yours,
Marc

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